



1

SEQUENCE LISTING

<110> Rubin, Donald H.
Organ, Edward L.
DuBois, Raymond N.

<120> Mammalian Genes Involved in Viral
Infection and Tumor Suppression

<130> 01123.0004/P

<150> 60/062,021

<151> 1997-10-10

<160> 127

<170> FastSEQ for Windows Version 3.0

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<211> 925

<212> DNA

<213> Rattus norvegicus

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<210> 2

<211> 554

<212> DNA

<213> Rattus norvegicus

<400> 2

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aagttagcta aagtnactgc aactccgnet gtgcagactg ntcgtaaatt ctctctgtcc 360
gccaaattct ccctcctatt aaacttttca ctctcttca cttagtttcc tnaacttctt 420
caaacggaag ctgtaactga gcctgccacc cnganacntt gtggttgcca tttttatgct 480
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<210> 3

<211> 891

<212> DNA

<213> Rattus norvegicus

<400> 3

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ttntnggagc	tcagcttatt	cccttccent	cccattccagn	atctccctgg	gntggatgag	480
gtggatgacg	catcttcaaa	gcaccccacg	tntcatggga	tgtgcacagg	agcttcggtg	540
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catctctgtg	acttccagac	cggcntcgcc	agagcaagtt	ccaggccacc	cagatgagat	840
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<210> 4

<211> 974

<212> DNA

<213> Rattus norvegicus

<400> 4

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accggtnntg	gttnncnantt	nnttgnance	ncnattggg	gtttccgntt	accnggggtt	300
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acngntcnan	ccttattgac	aattaatttt	tccttgngna	ntctgncccc	cngnantttg	420
gggttcttg	gngcagggcc	tttttttcent	tggngnga	cncataaatn	ttaccagntt	480
gattgctaag	gaagtancca	tggttgngaa	cccccccttn	ttntctccca	gatggaaccc	540
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gtgcactgtc	cttttgcaat	atgggggttg	cctgcctgct	ggctcntctc	ctgctntntc	660
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aaaaaaaaaa	ccgaggacgc	agaagttaga	ctgctgacct	atttggtgca	tgtgtgcccc	900
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<210> 5

<211> 850

<212> DNA

<213> Rattus norvegicus

<400> 5

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gttaggggga	cccgnnggaa	aatttttaaaa	ccnngngggc	tttttcgaat	taaggggaaa	180
ngcggtttng	gtnnntgaag	ggcggngngt	tggagtcnna	gtccagagtt	gatttccacc	240
cacaaatntg	ggaggtgncg	gggaatgntg	ncnttttctt	gngatgaggg	ntgccgtnc	300
ggantaacag	ngnttgcntt	gtntngcnna	acgaagagtn	tcctgnttgg	aataggngtt	360
cngttcgang	ganccagatt	tangngntgg	agnaaggatt	nggcagataa	angcntgaga	420
natgnancnt	ggancaggtc	nggncnnagn	ntacagatga	tgnncccana	canganataa	480
ntncagatca	cagtcgtacc	cngngctggg	ccatgaanag	ggcatcccca	gacnnacaca	540

ngccttnana	antgntcaga	gaaccancag	tggntanggg	ntgcccnnnn	naccagggaa	600
gacccggggc	gtgncggata	ttgacacanc	agatnncatt	tggggncgg	tcgaggggtt	660
atgntcnccg	agtacnagan	angatcntcc	aacccggaat	ncgggtgctcc	ngtcgtccga	720
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tcgtatantc	nttgcgggng	gaggctatnt	tcagaggnga	agattaccgt	tagcgggana	840
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<210> 6

<211> 531

<212> DNA

<213> Rattus norvegicus

<400> 6

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ananacatca	gagatctctn	gnacagtgtt	tcacaagagt	ctatcncana	gagcacatct	180
gccccgggng	anacacaact	ctaaatgtgt	ctcanntgat	ctctctnttg	tgtctctnac	240
atatgnggac	atgctctcag	agtatngnt	ctcttgngcn	cttntgcaca	cacacacaca	300
cacacacaca	cacacacaca	cacncttctc	tctggcacag	ggntatggca	nagcacatnt	360
tnngagntca	nagctntata	tgagtgtgtg	gcgaaaggng	tnatnanann	gacnncccca	420
gennatatag	gggggngnnc	tctngggctc	tcttnggnaa	tnnggggng	agtctgcnc	480
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<210> 7

<211> 572

<212> DNA

<213> Rattus norvegicus

<400> 7

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aaccncgggg	ntcntgttt	tattttaaaa	aaaaagagtc	ncatgtntat	ttctctnatg	180
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tcacaacaca	attcncgaga	nattntgttc	cncantggnn	gtctnagntc	ncatgttgtg	420
gngacangtt	agnncncccc	atnttcnccc	ccctttcaca	ctgcccncag	agagagaaan	480
tctnggcccc	ctctanannt	ntttttaaat	cnccccnac	cacaggtnnt	cccagggtat	540
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<210> 8

<211> 906

<212> DNA

<213> Rattus norvegicus

<400> 8

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agagcccccc	agaaancccc	tnctctcaaan	aaagagaaag	agaagancga	gnagnagaga	180
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acacagacac	ntctctcang	gggaacacat	anngactcnc	acntgtgttt	atattcnccc	420
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ttcccttttt	ccnggggacc	cccgnnttcc	tttttaaaaa	aaaanaaccc	tttctccctt	840
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nccccg

906

<210> 9

<211> 914

<212> DNA

<213> Rattus norvegicus

<400> 9

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ccaccncnan	gacacaaana	naaggngtnn	anaaccccan	aaaaactnng	ntntcngntt	480
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tntncttacc	cctctccctt	ctctgtgtgt	ngannatata	ngntctagat	gtcctnacct	660
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anangagaag	gnccaaaaag	gngggngtct	tctcggaat	ncnccctttt	ggccccccaa	780
cctgggtttt	tttccccctt	ccttttaatn	antttttcna	nacaaanctt	tnngngtttn	840
ggaaaangcc	tttnnctgnn	nnttttttcc	cttccccctt	tnnangggnt	tccccccccc	900
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<210> 10

<211> 400

<212> DNA

<213> Rattus norvegicus

<400> 10

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gtgagatata	tgtgattctg	tgggtgggtt	ctcagagggg	gtttgggtta	ttggggataa	180
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tggttatata	tatttccctt	cgcggggggtg	gagatttatc	acagggggag	agcttttccc	300
ttgtagcaa	aagtccttgg	tctcgtcccc	catctcccaa	aaaaaaaaaa	atgtgaaaaa	360
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<210> 11

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 11

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cgaaatttta	aaaaccgtcg	ttagaggaaa	tgaagggtca	gccgaccatt	acctganagt	180
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agcagagatg	agtcccaagt	ttgaaatgag	aaaggggaaa	ttgagagcta	tgagctaggn	840
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<210> 12

<211> 909

<212> DNA

<213> Rattus norvegicus

<400> 12

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nagacggtgc	nnngggggga	ggggcaggag	nggnagagag	gcangagngg	agnggggaca	180
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nacccccng	gttganggc	cccacgncg	ngcaggccgn	nnaaagnag	tccccnaaaa	780
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<210> 13

<211> 927

<212> DNA

<213> Rattus norvegicus

<400> 13

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cagagcacag	tggcaangac	tttcattctt	nttggncctt	cccagggggc	gtncccaat	900
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<210> 14

<211> 848

<212> DNA

<213> Rattus norvegicus

<400> 14

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tnatttnaan	ggngtagtt	tctggtnggt	tcattccttn	aaaaaaaaac	aaaacaaaac	180
aaaccgnagc	ttctgcattg	gccaccngtt	gnggcaccaa	cccttnangc	attgcccttt	240
ccttcctgcc	gtgtcgggng	gcgctaagcn	gcccttgtea	ccttccattt	ntngatcatt	300
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gtaaatgttc	atgcaccctg	cctgcttgca	ccctcacent	catgcttggt	tgatgacctc	480
accgtggctc	ccccannann	aaaananatc	catgtctgca	ccttttggtg	gctttcttgc	540

ataacctagg	ataggttatc	ttttccacgt	tgcactaaca	aggccacgcg	cattcgggtcc	600
gtgaaaccac	ctcggcatcc	ttttatntca	tagaggcaaa	tntagcttgt	ttctgccgag	660
agatgacctg	gactccgaat	gggctctgag	tatntccttt	taaaacctta	aaccagantc	720
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atagaaaa						848

<210> 15

<211> 896

<212> DNA

<213> Rattus norvegicus

<400> 15

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nggnggnaaa	gagnnanttn	tttcaagggt	ccgnaacaaa	aagttgagng	angattccna	180
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aaaaggaagg	gaaaagaaaag	ggnngaagag	tnttcccaga	tgnattntga	gcagagaatg	480
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agacctattg	ctttccgaga	ggatcggacc	aaacagcaga	ttntgctcaa	ggcccttgaa	840
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<210> 16

<211> 858

<212> DNA

<213> Rattus norvegicus

<400> 16

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tcgcgncctt	tacattatga	gggttgataa	cngctgtttt	tnhatttttg	ttaacanggg	180
ngggngcntt	tttnggntga	cctntagtnc	ntcngngccg	ggcatttttg	ntaccttttt	240
atthtttnga	gtncagggat	gttgtgtact	gggaatatte	cttagaagtg	accatgattt	300
tatatthttat	taaatatata	cttagattca	ntctttgcct	aagcctggat	gttgttggtt	360
tttgtttttg	ttttgttggt	nggagagttt	tcattttccc	aagctggctt	tgaacattca	420
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ccgggaacga	tgagtcagcc	agcggcacat	ataaccaacg	atgtaatctg	ttatgtaact	780
atgaatcctc	cctggcagag	tgccaccttt	gtgtgattht	tgtataaata	tgcccctgag	840
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<210> 17

<211> 551

<212> DNA

<213> Rattus norvegicus

<400> 17

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gngatctntc	tctctgtgca	cgaganatth	tagaggggga	tatccccggg	gtgtngccng	180
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gagnggganaa	catttttntg	tggngggcccc	ccacaananc	acnaacaana	tatttttcgag	300
aancncatgn	ganaatcggg	ggggggggggg	ccngtggttna	cacnatancc	ngggngatna	360
nanagacacn	nnatatntct	gggntgtgna	aanataanac	aagancanac	atgngggagan	420
natgtgagan	tgtgcacacc	ctgttggtgac	atgtgaggtg	gggggctgat	gatncctncc	480
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<210> 18

<211> 888

<212> DNA

<213> Rattus norvegicus

<400> 18

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gaggggccaa	aaggataagg	aggatgattg	attggtttgg	gagcagtact	tggaaagagt	180
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acaattcaca	agattttgtt	acagggaggt	ctaggaggtg	gtcccattag	ccggtagggg	360
ggttttctca	ataaatgggt	tcagtcaggt	gtttgccctag	atctttcatt	agttcctccc	420
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aggccttaaa	cttgtgatcc	tcctgtctca	gcctcctagg	tgtaaatgat	acccaaatgt	780
aaaccatgtc	cagttacttc	ctcctaattc	catcttcaga	tatcctttaa	gaccaaatta	840
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<210> 19

<211> 867

<212> DNA

<213> Rattus norvegicus

<400> 19

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tggggaacaa	aaaaaaaaatt	ttaaaaattt	ccaggggggt	tttgaaggca	ggtgatttaa	180
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tggaaataga	tttttaattc	agggatcctt	atttttaatg	tttccagggt	aaaagggaga	300
tattcttata	aggtttctgg	aaaaagtttg	cttgggtttc	tttggcagga	gagaggttta	360
aaaaagactt	catttgaact	ttttgatcat	tgtgtaaaac	tttttttttt	gaacaaaaca	420
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taaaaacaaa	aaaaagcccc	ctgagagcct	tgagccatca	ggttaagtct	catttattaa	600
tattttcaag	gccacaggag	acactctgtt	cccttcattt	agggaggtgc	tgaggcagcc	660
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aaagagccct	tttcacgggg	tggccaagtc	ccagcccggc	ctgggagcca	aggtcaagtc	840
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<210> 20

<211> 897

<212> DNA

<213> Rattus norvegicus

<400> 20

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aaagtttagga	tntgggttga	tcnaccac	aaggaatttg	ttnttaattt	tttaaaggna	120
aatttgggca	cttcnattgg	gaaggttaaa	acccaggcaa	gtgntaccgg	gntatgcaag	180
tgaacntga	ttctggnngt	ggaggggaagg	atantganat	gtgagtgagt	gcagttgagt	240

gaggacttgt	gagnacaggt	catgcccacc	aaagggagga	gcaaggggtg	gcagtggtag	300
gtggtgtgtg	gttcctttct	gggggntggg	cggggagaca	gatgagaacg	ntattggagg	360
acaggnacaa	gtgtactgaa	atgcaaatac	ctgtagatct	ggaaaaggct	tggnttcagg	420
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ggaagttttc	gtcactgaag	actagtggct	aatcagagtc	ttcaatggac	ctgccaatca	540
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cggctacccg	tgaggtctta	gccactcact	agacccagcg	gcagtttctg	aataactttc	840
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<210> 21

<211> 435

<212> DNA

<213> Rattus norvegicus

<400> 21

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gcagagtata	cactggttgg	gtaaatgaag	aggagagaca	gagtgggaag	tcggcttagt	180
ggatatggac	ttcaaatttg	atgaacaagc	aattcaaata	agtatcgtgg	gcttgantgg	240
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gagagagaga	gagagagnaa	gagagagagn	gtgtgtgtgt	gttgtgtgtg	ttgtgtgtta	360
ttggttnata	acaanatnta	cctttgggcn	ctttngaaag	actntncaca	aaggagcttg	420
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<210> 22

<211> 894

<212> DNA

<213> Rattus norvegicus

<400> 22

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ctagaggana	accggccnat	aggngggggn	agnatggaag	gattttccag	agaggaatca	180
gtttggngag	agaatttgat	aaggagttcc	ttggaaccaa	ccnggagggg	gttttggttt	240
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<210> 23

<211> 594

<212> DNA

<213> Rattus norvegicus

<400> 23

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nagagtaatt	tcaaaagccc	cagntttgtg	gaatcanttt	ttgaanatat	gaaaaggccc	180
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gtttntggca	gaaacagaac	agccccgttg	gcacggacag	tgtccactgt	ttatctataa	300
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gggagtcaga	gaggtcggaa	caatgagggc	gaaacccaaa	ntntgaaaca	cgcccacctg	420
aacaggacga	aaggggtggg	cttggtccac	ccagaaggaa	acctcgaact	ccacntttca	480
aggtatccgc	tccgggttag	cagccccggc	caaacgcccc	tgctggcttc	taaccacaacc	540
agctacgaaa	gcaggctnga	ccactagctg	ncctcgactt	gaaagttccc	acaa	594

<210> 24

<211> 586

<212> DNA

<213> Rattus norvegicus

<400> 24

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gctgggaatc	ttaaggaatc	cccaanacat	atggattctt	ccaaagtatt	ttccatcaat	120
tccaaataga	tgtatttcaa	aagccccagc	tttgtggatc	agtttttgca	ntatatgaaa	180
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aactccacnt	tcaaggtatc	cgctccgggt	tagcagcccc	ccaaacgccc	tgctggnttc	540
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<210> 25

<211> 909

<212> DNA

<213> Rattus norvegicus

<400> 25

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cnntgtgcan	ttgggatcct	nnggnccacc	ntgagggtcn	tcacaaaanga	agcngncnag	900
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<210> 26

<211> 576

<212> DNA

<213> Rattus norvegicus

<400> 26

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tccccactct	acatctgttg	tcggagcacc	ccccacccca	gagggcgctg	tcagtcatag	180
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gtgtgcagat	gtcatagtga	gaaaccaccg	ataaggggtga	tagggtaaaa	gataacttaaa	540
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<210> 27

<211> 853

<212> DNA

<213> Rattus norvegicus

<400> 27

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tcctttgaan	accnngaaaa	attcatttnc	agagggggtt	gaagggggag	ccgaaaagaa	180
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<210> 28

<211> 825

<212> DNA

<213> Rattus norvegicus

<400> 28

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<210> 29

<211> 861

<212> DNA

<213> Rattus norvegicus

<400> 29

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cagacgctna	annngtntgg	natnntganc	ggntgaccat	agagcacagt	antgnngatt	720
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<213> Rattus norvegicus						
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ttccaggngn	acangaacgg	gtgcggnggg	antaggggga	aangtttgga	gtgngccaaa	180
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atcngcaaca	accaccggag	gtaggggggt	ttttgtngca	gcacagatan	gcgcagaaaa	300
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angtcgttgt	gggattgctg	tttttagtag	ctgcaaacgg	ttcgttttnt	gctatctttg	480
ttngataaaa	tcagccccgg	gcagangana	ttcgaaagtt	cccttttagga	gcttatttan	540
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gnatnttttg	atcgcggttc	gtgggatcct	aaaaaccggt	ttctgtgatt	ggcacgcaag	660
aaanactcat	gagctgggtc	ctgttgtgtc	tctcaggacc	aatcaaanac	ccatttccaa	720
cggctttata	atgtctgggt	ctgtttgcac	aggaagcgaa	gtcacgggct	gcacccgtga	780
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caatcttcca	gttggtt					857
<210> 32						
<211> 1630						
<212> DNA						
<213> Rattus norvegicus						
<400> 32						
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aaatttttta	ccnncttttt	tccttaaaaa	anognatcct	gangggattt	ccgttnaatg	120
gnnttaannc	ttttngngaa	tgtnacccc	aatnttcccc	tnaattttga	gtnggataat	180
tgcttanagg	catttggaag	tttaacggnc	acctgaggtt	gattggttgn	tattnaacgg	240
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gagggcccag	cgcggttcg	cccgcggcag	ggcggggacc	aacagagggc	cncgggggat	420
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ggggattgtc	ccaggagggc	aaggagcttg	gaggagggag	gccgcacagc	taggggagtc	660
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ttaaaaactg	taaaggatct	tgtgcttgag	aatattggtg	gccagcttta	tagtcttcat	1260
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actttatacg	taggacatca	gggtattgac	attctcatcc	taaagtcagt	ttgtctgttt	1500
ccagaggagg	aactgaagca	gtggttcttt	aagtaactga	ctcagggctt	tcctgcctgg	1560
cgcgcctgcc	aggcatagtg	tagcattgta	ctgcattctt	tttgaccagt	ttccccaggt	1620
gaagagcctg						1630

<210> 33

<211> 883

<212> DNA

<213> Rattus norvegicus

<400> 33

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gagggnnngg	aanggccaan	attggnntaa	aaanagtang	tttggttgat	ccanacacaa	120
ggaatttggt	anaattttnn	taatggaaat	ngggcacttc	aattgggang	ataaaacccc	180
aggaagtgat	accnnggtta	tcaagtnaaa	cntgattctt	gngnngagg	gaaaggatat	240
tgaatttgag	tgagtgcagg	tgaagtgaga	cttggggagna	caggtcatgc	ccaccaagg	300
gaggagcaag	ggntgggcag	tgtaggtggt	gnggtggtcc	ttcctggggg	ggcgggggag	360
acagatgaga	acgttattgg	aggacaggca	caagtgttac	tgaaatgcaa	atccctgtag	420
atntggaaaa	gttctggntt	caggcttgat	gcttgggccc	gcaactgtgn	actttccctg	480
tacgttcagc	ccccccaccc	ttacggaagt	tntcgtcact	gagantagtg	gctaatacaga	540
gtcttcaatg	gacctgccaa	tcagaaagga	aggcgggcct	ttccgggtgc	ntaggtgtag	600
gattcgctca	gtagttaagc	agtcttaact	ggttntggct	gctgtgctct	ctgtcctgcc	660
gttggattnt	ntgaggcatg	ttcaggcaag	ctccaaagtt	gcgacatggg	gagcacaggg	720
gcaggggggg	cgggcggacg	ggcaggggac	tgagcagtg	gagctggtgt	ggtgggtctt	780
tcccggggct	gagttggaat	ccgcggctac	ccgtgaggtc	ttagccactc	actagaccca	840
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<210> 34

<211> 913

<212> DNA

<213> Rattus norvegicus

<400> 34

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ggttttntcc	naggggggga	gaccccnttn	nccgcggggc	tttcgnaatt	ttttgggtcca	180
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cggttttttna	gtgggcctaa	tacggnanat	aggaggacga	tttgtnttgg	tttgtngagc	300
cagtaccttn	gnaaagagtt	gtagttttga	tccggcaacc	aaccacngtt	gtagcngngt	360
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cttcgggttc	ngacgttatg	ttgtgtggat	tgtgagcgga	taacaatttc	acacagattc	480
cgatngtagt	ccaatttggt	aaagacagga	tatntttccc	ttcaaagaaa	acagaaaaat	540
acagaaacgt	taattttcaa	atctcnaatc	tttcnttctc	tcttcnntca	ttcattcntt	600
cnttctttct	tctttctttc	tntctttctn	nagaggaggc	atgctagggg	aacagtagct	660
catttttaaaa	tctggcacct	ggaattaatt	tagggacaaa	acacccttat	gcaaaaaaaa	720
gtttatgttt	ttccatggaa	cacagtaaaa	tcaaaattaa	aagaatataa	caaaggcttt	780
ggtgatttgg	taggattttt	tttttcctgg	aggggaaaaac	agatgacttg	gaaagtgtta	840
ggaacatatc	aagccccagg	gaaagaaaaa	cgtttgattg	gtattaatta	aaacactgct	900
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<210> 35

<211> 320

<212> DNA

<213> Rattus norvegicus

<400> 35
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 aatttgatga acaagcaatt caaatgagta tcgtgggctt gactgggtatg aagaccggtt 180
 tgcaaagcag tgntcataag agagaaaaga gagagagaga gagagagaga gagagagaga 240
 gagaaagaga gagagtgtgt gttgttgttg ttgttgttgt tgtttatttg tttataacaa 300
 gatntacntt tggtaacttt 320

<210> 36
 <211> 389
 <212> DNA
 <213> Rattus norvegicus

<400> 36
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 ctnttanann tnttcngggt gtncctcncc gntgtgggga atganatntc gntctcgaca 120
 tcaggggatt ggagattntc tgngetcncc nctcacnacc cagaagaagc gcacagagan 180
 cagagtanca catcatacac acctnttcag ctacagagcg antnctctan aaggggactc 240
 ggggganaac acaaccctcc tctcttctg actgngagng ccgcntgtag gntctgtcta 300
 cccancaaagn cttgtgcagn ntgngaacct ctctntgggg tagagtgtgt tgngggagca 360
 gggcggtantg ttccaggnt agnctttca 389

<210> 37
 <211> 882
 <212> DNA
 <213> Rattus norvegicus

<400> 37
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 nccnncccc cgnatccggn ncccccccc ctccttnggg gngcgggggt cccngngccg 180
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 cngaccana ncagnggctt ngtggggggc cccccgccca nagaacgaat tncgccnccg 300
 gccgcggcca tcggaacnnc ctagcagng cgtentgcta ggcnggnnna cgggnatccg 360
 caancccncc cttngtaccg ggacagccgn gggnccgat gggctgngcg ntnggccgta 420
 gccanntncc tttngaaang acncggnagc tnttcacccg cctcacaac cncnggnncn 480
 gngggggctn tntcntgngc cgcccgccgc gtgngcgcan aaaaaaaaaa aanncgcccn 540
 tcnccccctc ttttggccng ggtnccccgc ncaccccggt cagagtnccn nccccccac 600
 aacctcacac cgatcccngt gggttcccn ngggagtcgc ncgngcnag cnggnttctc 660
 cccatnncgc gnnagcttnag cgngccnnnn cacngtttgt nngngnntgc ctcccctcn 720
 tccttgaggc aaaagcccgn acngtntctg tggaccacnn tgctgaggng ctgggcgcen 780
 cgntctctct ctctctcnct ctctctctct ctctatctct ctttctctct ctggggcccc 840
 tcccttgntg nngccanaag nngcnnacc cgtaaagtaa gt 882

<210> 38
 <211> 975
 <212> DNA
 <213> Rattus norvegicus

<400> 38
 aatttngnca ataanggcc tccccctgag tgngggganc ncnctgttc anaaggtagc 60
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 tngatcctna naatttcaac aaccgcagga ccatttttga acttggcggn ngtttaccct 180
 tnatgnnctt tcnnnaaaat ggcttccttt gncatcnaat agtgntgccc ctaaccctn 240
 gggtccggag gatgcatng tgntgtgng tttgnccttg agcatgngt tccgtnacgg 300
 gancaagntt ntcaatgttc cntcacncca tacttnggct tggggtacaa nttgtatatc 360
 ttcgggatta tatnagttta tgtctgnttt tcataaaatc acttgtggat ttggctttta 420
 ngtaggaca acttnccaca gtttcttggg tctcncntcaa catgttaacg ccattttgtt 480
 cttgtatact aaagtgcac gtcnttntng acactaacia tcacaaatta ggagtacaa 540
 tcaactttga gaaaatttaa agatgcccc atctcttgta tcagcaagta ttcagccagg 600
 atttaattct ttatgtaaaa attagcaagc atttctatnt cattcacgtg caaattttct 660

ttgattgtta	attaagattg	aagtgatatg	tatggcccaa	ataagtctca	ctttaaaaaa	720
tattttctta	tgaattatta	tccatgaatg	tttgatctgt	atagctattt	tatataagta	780
tatgcaagga	ttgctaaaac	aattttttgag	tgaaaaaaga	tccataggtag	aaaatgttta	840
agactaccta	taccgtcatt	aaaaactcct	caccagcatt	tactatgggt	ggacttttcag	900
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<210> 39

<211> 850

<212> DNA

<213> Rattus norvegicus

<400> 39

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ggtttcaaac	aatgcttaag	ttgtggggag	aacnagnacg	tccgttccng	accngttta	180
tcntaaagga	gacgngnggt	aaagggttagg	gggttngaca	gtcctgctgg	tggtcaagga	240
ggaggagaca	agttgncatc	caggngngca	ggaanacctg	ttaaattcct	gaccnaccgg	300
atgnttgagg	agcnaaggcg	gattcttccg	gcagtggcca	gatttcaacc	cagggtccgc	360
ccngcttttc	ttggttaggc	aagcaggcct	tagtccngga	ggacgcccct	tggtggccag	420
ggtatcacgg	ccccctngg	gtttccattt	gcagtttgta	ttggaccatg	gatcactgct	480
tccttntgcc	ggaagttcca	gattccaaac	tgtgngantc	ccatntgcaa	ctcccattgt	540
tgccngtggg	actttttnta	atatcntggt	acccgcttcc	catttcccca	ccccntgnt	600
cccttcggga	ggaatcaccg	cccagtggtg	cacttctctg	aggnacttcc	aaggntagat	660
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agacgntagt	aaggctcttag	gggaaggaat	gtagtcgatc	cttctccttg	gtggccctca	780
gcactgtgag	tagaccccac	acatcagggc	tgtgtcgtta	ggatctcttg	gaggggtgaa	840
agtttcgagg						850

<210> 40

<211> 889

<212> DNA

<213> Rattus norvegicus

<400> 40

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attaaggggg	gccgggggaa	aaaggagatt	nattaaancn	ccacccgaat	tnaaacnccc	120
nccgggaccg	naaccgtttt	tggccnaaan	ncgagaagtg	ccttcnnggc	aaagtagggg	180
accaaaggtn	gggggagaga	attgggggtt	gtncagngtt	ccggttcnac	ggaaggagcc	240
ggttggtggg	attgtttcca	aggagnngt	ttgngaccg	agcacctcng	ggngaccat	300
ggggnntgcc	tgtagagac	cngcnggatg	ttttgggttc	gnattcgggg	agggatttcg	360
ggggcctcac	acnggggagg	agtcccntgc	gttcccnatg	ggaccggttg	tcgggcgggt	420
gcagtttcgc	tgctgtcctt	tggcaatgng	cntgggnatt	ngtgggcaga	ngagattccc	480
cngccccccg	natttcccn	gttccagttc	ntaggnacca	gaggttttcc	gcagtgtgat	540
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ggccacctgg	catcttgagg	tgggttgcca	atgagtgaat	gaatgagtga	gtgaatgaat	840
gaatgaatga	atgaatgaag	caagcttcag	ggagattttc	agagaagtg		889

<210> 41

<211> 929

<212> DNA

<213> Rattus norvegicus

<400> 41

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taaaaatttn	cantttccgt	ttttaccngg	tttatggttt	ncagcctact	cctgttcgan	120
ttccaaatcg	gtttaantgg	ncccnccgaa	nontntnttn	tttggcagaa	ggtgaanttc	180
nttggggccc	ttgtttaagg	gttttnagcc	ttaaattgnt	tgntnagnnt	ctcctaatt	240

agttcattcc	tttgaccatc	ttttgnccct	ccatcttgta	aacanttaag	tctattgcat	300
tcacatttnc	tntcagttnc	cgtttnaccc	tcctnagcag	aacccgnttc	tcagctntgg	360
atgggtccaa	anggtttccc	aacctatgct	caataccaca	ggcagcttgc	aggagggaga	420
antggtatgt	atttaacagc	attttgaccc	aaacttttag	gagcagagag	gactttaccc	480
aggacaggaa	ggcaaaagac	ttgaatctta	aacaaaggat	taagaacagg	atgtcatctg	540
tgagcctgtc	acagtgggtt	tgcagagcag	gagaacacag	acaggattag	ctataaagtt	600
gttacattag	ttatnttatt	ggagcataca	atacttaaat	agttctaggg	caagagaaat	660
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gctctactgt	ccctgtctat	tgtcagcttt	gcaatgtgca	tagtgacagg	agttgcctgg	840
gaagcttggg	gcttatgttt	tgcagatcca	ttgtaattaa	aaaagaattg	taaggagatg	900
gaggcacggg	gtgagggtga	gggtgagtg				929

<210> 42

<211> 943

<212> DNA

<213> Rattus norvegicus

<400> 42

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gtaaaagggc	ctaccttggc	ttngaaggga	atntcctgaa	ggnnnaatcc	caannttggt	120
natcccaatt	aaggntnaac	nggtttaatt	tgtnttcnc	ntaccnaccn	ggtttnccgt	180
tatactaaag	ggctaacaat	taaatgctca	naagggaccc	ccaatcctng	gcnagaactt	240
gggttaaggn	ttccattagg	atttgccatc	ctntaccgtg	atcctgaaca	tntnttgaac	300
tgntttgcca	aggaacngaa	ggttttncct	naagntagca	cacagcagng	accaaggatt	360
ggaacccagc	nagtgccttg	aggtaaaaga	tcacttccnt	ntcccttagt	caggancntt	420
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cgtccactaa	agctgcctcc	aattcaaact	ggattgagtg	acaagtggct	tgggtgtctc	540
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ctgttgactt	tttctctccc	tgcaaacagt	tccaggcacc	gnntagcatn	tgccactctg	720
gctntagaaa	gctttgcttc	ccctctgctc	cctggctggc	tggaaactcag	cctccgggtg	780
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tctctgaagt	caaggagccg	caccagcact	tcagttgtgg	gccataatca	agncangact	900
gaaagttagc	acctgtagn	gccgcaagca	aactgagatn	ttg		943

<210> 43

<211> 867

<212> DNA

<213> Rattus norvegicus

<400> 43

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gttttgngng	nattttcccc	ntggtcgttt	tntgnacgat	ccacggttga	ccgacgacgn	180
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cagcgnagcc	atttccaccg	gatccctata	gcnngccagc	ctagcaggcn	gaacaccagc	360
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tctgtagttc	ggagcaagat	gtcggttaaa	tctggcagga	aaatgccttc	tatgctcatn	660
tatatattcc	tgcttccctc	agcttgcttt	cgacttagta	aggtaacatt	tcagagcggt	720
gcacttagta	ctttttggca	ctgtgctgta	taaatataaa	tgttccacac	ttaacatctt	780
agatgttata	tctaaagata	tgcactttta	aacttcgaaa	gcgcataccc	taaaatttca	840
tatttttgca	tacattggtc	agctgtg				867

<210> 44

<211> 303

<212> DNA

<213> Rattus norvegicus

<400> 44

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agtggaatcc	acagagttcc	cttgacagag	aatataaaaa	ggactctggg	gtgtcagaat	120
ggtgggcatt	aacctgatct	tccacttgag	ggtaagggaa	atgattagtc	caagaaatat	180
ttgagcagaa	gggagttagg	gttttcaaat	taggaaagtg	gaatccacag	agttcccttg	240
acagagaata	taaaaaggac	tctgggggtg	cagaatggtg	ggcattaacc	tgatcttcca	300
ctt						303

<210> 45

<211> 840

<212> DNA

<213> Rattus norvegicus

<400> 45

aaaccggnng	aanaaaaaan	gaaanngang	gcnnnaaaaa	agttnnngaca	gaaaaaactt	60
tnngaaaaaa	gganggggan	aaggcaggng	nccnactnaa	aanggncttt	tcnaagnng	120
anagagntgg	naatnagnaa	naggacattc	tttnaacctc	cnanggnngn	nggaannaat	180
ngggattgag	cngccaccat	tagggangaa	gttngaattn	nggggccccn	gngagttaaa	240
angattcccn	ggttttttaa	aacagagaat	acctncagg	acagatnaac	ccgagattgg	300
ttccctngaa	aattnnngan	aaagataaan	gtaggagcat	tcaaagtag	anggtaaaa	360
taatgggaga	catagacacc	aaaaaaagcc	agttcagtgg	gccccgaagg	ngcattaagg	420
gaggaccagg	aaacggcagc	anagccacng	gcagccgcct	gccccnacac	cagtnattcc	480
cgcacntaga	tccaggcgnt	gggggcgggg	cggggcgcg	ntgngcagng	aagntnngcg	540
gcaacaantt	tgcntagacc	ggntggaacc	ggttagaacc	ggccgcgccc	gaccggccgc	600
ccgttccgga	ttntgcgttc	acaaagggag	gcgggactca	cgacntgngt	atcnttgngg	660
tcccaacccc	ggcccccnac	cccnaccccc	nttgccctg	tggcattcgc	gttctttccg	720
ccgtctccct	cgcgggccgn	ttntctgcgc	ctggtgatcc	tttcgccatg	gtcctntgga	780
gaaagaaaaa	atctttaatt	tnctagggac	gtccttttcc	tgtagtcgta	attgtagaaa	840

<210> 46

<211> 893

<212> DNA

<213> Rattus norvegicus

<400> 46

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gnagnatagg	agaggaaaaga	aagganggan	agaagagaaa	agaanganga	gagaaaggaa	180
agaggaaaaga	aagaggggag	aagaggaaga	aanagaggag	gggangagag	ggaggataag	240
agaggaaaaga	gggaganagg	nttgaaaagg	gaaagagaag	gagaaaggna	gnaggngngg	300
aagagaggna	agggagaggg	gganaanggt	aagggggnaa	agaangagaa	gtatnggggg	360
aaaggaggag	angaaagaag	aaagaganga	ggaggagagg	gagagtgagg	aataaagggg	420
agggaaaagg	angagaaaaga	gagagagggg	gagggagaa	nagagaagga	tagnggggtg	480
gagaaggaga	aaggagagaa	ggagaaggng	agaggagaa	tgaagaagga	gggagtaaga	540
aaggantgag	naggaaagga	ganagagagg	tagagagaaa	anaaagaggg	aaanggaggg	600
gaggagggng	nanaaggaat	agagggngga	aanangagag	aggggaaang	gggaaggaaa	660
ggaggaaaaa	aagnagagaa	gaagagnaat	gggaaggang	nagtagnaaa	agaaaagnag	720
aggggagagg	gggangangg	ggganacggg	ggggaanaga	aaaagtgaag	gaggccccc	780
nacccccccc	ccccacacac	acacacagcc	tttccgccgg	cggaagtgca	ggttggtcca	840
ggagcctgtg	gtcaatccag	tcagtagtgg	gcgaggtgta	acatctgtgt	ccg	893

<210> 47

<211> 789

<212> DNA

<213> Rattus norvegicus

<400> 47

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cgtttccana	gncaaccatt	ctggngncc	caaggttnga	ngagntccgn	tcaaggngaa	180
accttttcaa	gaccaattaa	ctaggggatn	agaggcgggn	tggtnntga	ggggcgggct	240
gctgagaaga	ttcgttgggg	gacccaggag	tgaaggtttt	tnacctgtgt	ntntcgggaa	300
ggtcggatnt	attatantcc	tgctgttgga	ggagtccggt	ggttcaaggg	ccggacccgg	360
agcgtttact	ttttnttgnc	cgcagccaat	ttgtnttgct	tggtttcttc	ngaatcccgg	420
ggcggggagg	gggaagcggg	gggccaatc	accacgatcc	cggcagccac	cgcgaaattg	480
ttccggcagn	tacgantctt	caacaagagc	cagagaaggc	gggtgcagag	nttcattagg	540
acgntcggaa	acccggcgtg	acttactttt	tccaagccca	ttggttgatg	agaatgatga	600
ctgacagggg	ggcgtgggtc	cgctgtcgcg	ggcggggagcg	acgggtggag	ttaacgacga	660
aagctgcgcg	cgcagccatg	acccctcaca	gccacntatc	ggagggaggg	gcgggacagc	720
tttagcttgg	tgcgtgcgca	gccggacgtg	aggcagttgg	tggctttcca	tcgtcgattt	780
ctggttacc						789

<210> 48

<211> 872

<212> DNA

<213> *Rattus norvegicus*

<400> 48

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cggggaagga	aaanggggct	ctnaaaatan	gttantggga	tggngcctta	agggggggcc	120
catgngccag	gaangcagat	tcaaaaatgt	tccaagtggg	aaaccanggt	tggnanaggc	180
cctccnggnc	gtnaaggagg	agaggagaga	tggagtttca	ggtgtgtttc	ccaccagtg	240
ttcccaggga	acacaaaacg	gataggtcac	cntcaatgna	caaggaatta	aaagcttggg	300
tgtatnggga	ggcctgcttc	caaagccacc	agaaaatccg	gagagccggn	ggatcntacn	360
caccagagg	ttcataggga	gggcantatt	aggggtgtgc	ccttgtgaga	ggaagtgtgg	420
cacngtgggg	ctgggtttga	gatntcagat	gntcaagcca	ggcccattnt	ntctctctca	480
gtntctctcg	gtctctttct	cngtctctnt	tcagtctntt	cagtctctct	cagactctct	540
ctctctctct	ctctctctnt	ctctctctct	ctctctctct	ctctccngc	tgcnttcaga	600
tatagacgta	gaantctcnt	ntatccagca	ccatgtctgc	ntgcatgctg	ccattnttcc	660
caccangacg	ataataggct	aaacttntga	actctaagcc	agcctcaatt	aaatttntan	720
gagtcaaaac	agcctcaatt	aaatgttttc	atttctatga	gtcacagtgg	tcattggcatt	780
tctttacagc	aatagaaacc	ctaactaaga	cttgccgaaa	cctcaaccac	aacttcagcc	840
ctcagaagcc	caagagggaa	aagaccttga	at			872

<210> 49

<211> 785

<212> DNA

<213> *Rattus norvegicus*

<400> 49

tcgtaanttt	tnatccaccn	gtanangatn	ttccatgcc	ccatgtacgg	ttacgaggng	60
tatagcgtgn	acngtttttg	agtnggctaa	aaggaaatgg	agacntattg	tnttggtttt	120
gtgaccata	acttcggaaa	ggttgtgttt	tatccggcaa	caaccacngt	gtagcgggtg	180
tttttgtttg	cagcagcaga	taacgcgcag	aaaaaggatn	tcaggagatc	ctttgatttt	240
ttnttcgggt	tctgacgnrc	atgttggtgt	gaattgtgag	cggataacaa	tttcacacag	300
aattcaaagg	agaggagcca	atatagaggg	ggaaaaaaa	agaaggggaa	agcattagtt	360
taaaaagttg	agagaacaaa	gtatgttttg	cttggatggg	caaccaaaga	agcntgccag	420
gaatggtcgg	taaaaggtgt	aagagtcag	aaacgtcttc	tgtccaaccg	ttaccggaaa	480
catgcaagga	atttcttaga	ctggccagga	ttggattgtg	ggaaaggtct	cttcaagcnt	540
ccccttggtg	tttatggcaa	gaaaatagtg	cggactatag	agagcgtcgt	tctcaaagct	600
tgtccccaat	agcagaaaag	cattgtccta	aattccttaa	aaggcaccgt	gaaataaata	660
ttacgaggac	acgatggcac	aagaaggagc	tttcaactct	gccaccagaa	cagttatact	720
tcatagtaac	catgttgccc	tgttcaatga	caaggcacgc	tctccagcag	aaagggaaaa	780
ggagc						785

<210> 50

<211> 889

<212> DNA

<213> *Rattus norvegicus*

<400> 50

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natgggcgca	gggatagnn	gttcnggntt	cccacangaa	tttgatttnt	ggaatcacaa	180
gtnaccagtn	gccgnaatca	cgagtttgcc	gctttntttc	ctaccttana	ttcataatan	240
gaatgagtan	ttttttttta	ttgagnaang	ttttnacagg	tttagtaaac	atgaggacag	300
aggttttaag	ttgangatta	ggaaggagag	ttccggggga	cagaatgtgt	gtattntcag	360
tcagtgcact	acccggaaga	gttgcagtca	ggttgaggaa	gggagcggat	ttcctggagg	420
ttttaaccaa	cagagagaaa	aagcattttac	tactgattaa	gcacacaatc	tctggattca	480
gagaagggtg	tttaccttta	tataaaatgt	ctcctaactg	cgtgactgtg	tgactttgtt	540
gaagtcaact	gagcactgac	tgtgttggtg	gcaacatggt	aagaggacca	actttnttct	600
taaattttat	ttattattta	tgtcacgtgn	acacttggtg	cttttgtttt	tgttctaatt	660
ttatctgcac	atatgtctgc	ataccacgtg	catttctgat	gcntacagat	gccagaaaag	720
gacaccgagt	ttcccctggg	antggagtta	tagatggtta	taagtctctg	agtaggtact	780
gggaagtgaa	cttcagtttc	ctctggaagg	gcagaaagcg	cttttcaaat	gctgggccat	840
gtatttcagc	ccctacttaa	tttataattt	tatttttagag	gatgtgctc		889

<210> 51

<211> 947

<212> DNA

<213> Rattus norvegicus

<400> 51

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aaggagaaga	nggaaggnta	acataggagn	caagaatana	aaganaaaaa	gaggtagaga	180
anncagagaa	cgagaaaaga	tgaaaanaag	antanaangg	aagaaaagang	nccagnanaa	240
anaaggcaga	aanaagatgn	cgtaaaaana	gagagaagat	aggnaaaaata	gaggagaagg	300
ccnaacagga	ngggaagagc	agcgaattnn	agataaaacc	ggagganagn	nagagaaggn	360
agagntngnn	aaggcaaaga	cagnanngag	nacggtaent	gccccagaag	gnngaagaan	420
gncnagangg	tgagggnngg	cacngncnt	tccccttagg	aggncgcccc	cccagagatc	480
aggtttcnag	gncaccgagt	tgatacnag	attatncacc	naggcaggaa	angantatng	540
caaaaangatt	cggggngggg	tcacgggggtg	agaaataaan	tcannaaana	gaggacgnng	600
aggagggngg	gaaactctng	acagaaatng	caagcangaa	gccagccnca	ccaagcccc	660
nacngaagca	gcngagangt	tgcanngcgg	naggtccaaa	tcancgnagt	catggagnga	720
gcttcggngg	ggcccnganc	cantgaggaa	gggcaggaaa	ccatatcnag	ccgagcngng	780
ngangngtgc	cctganacac	ccggagaggt	aatttttatt	tnacgggaag	cgtccagnca	840
agttcgtggg	ccggaagaga	cggtacttta	gtatacancg	ctnntgctnc	gagttgttng	900
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<210> 52

<211> 860

<212> DNA

<213> Rattus norvegicus

<400> 52

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tttatccanc	ntttgntttt	ttanccggcc	gggttaaaaa	tgggggggga	ttagttcggg	180
tagngttnnc	cnacagcaca	gccctgtttt	tcttcgttcc	ngaaaaaaaa	aaattttgct	240
ggtntcacaa	ttttnttaaa	caggatttnc	ttcaaccatg	gattaataca	tttccggtgc	300
agnttgcccc	gtttgttttt	tggttggtta	gggatgccag	caggattcag	ggatgcccat	360
tgtgnttagt	ntctggccct	ttaggagagc	tttgggctaa	ttatgtgacc	gattttaaga	420
agtgggtgtg	ttgtggttcc	agggactcac	ggatcagcct	ttattttata	aggacactgt	480
ggaggagaga	cagaggctga	gctgcattct	gatgtcattt	gtgctgctgt	ggaagttaaa	540
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atggagagaa	aagtcagagt	ccagcttttg	ttaactccct	aggatcagac	anttctgcgt	660
aaggacgggt	ctacagttta	acagaccaca	gagcaangtc	aaacagcaaa	gtggtttcat	720
ggcaggcagg	aaatggaaca	tttaactgga	aacactgaac	ccacccatgg	caaacttagc	780

aatgaagctg ggtgtggtgg cacatgcctt taattccaac actcagggga cagatntaat 840
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<210> 53
<211> 191
<212> DNA
<213> Rattus norvegicus
<400> 53
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aattcctcag gatggggaac agccattggg ctttttagtag aggagggaca ggcccttttg 120
cagcaacagt tctcccctga atgttggatc tccacctata cacatggggt acttagcctt 180
atggatgccc c 191
<210> 54
<211> 988
<212> DNA
<213> Rattus norvegicus
<400> 54
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ccttttatcc ttccntttnt gcccnccttc naattaggaa gcntggtttg nccgantntt 180
aaggttttta gtcntccttc gttntntttt cccttntttt tccctnaag ttataaagcn 240
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tttgttcctn ggccggtncc ttccaatttt ggantntccn ggtcngngt ccnattncct 360
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ntggattcct gngancaggg cctntgtttc atggaagcaa actcccttaa ntatttacca 480
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aatggagtg cactgtcctt tgcaatatgg ggtttgcctg cctgctggct cctctcntgc 660
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tgcccatgga gggaggggac cttctcaaaa gggttcacgc agcangcatt gaaagtnccc 960
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<210> 55
<211> 665
<212> DNA
<213> Rattus norvegicus
<400> 55
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tttttatccc taacttttca tccagtatgg tttttcaata tcacanttta atctaggact 240
ccttgcttaa agcaattaca agttaatta aaagtaagag atggctnata gctctcatta 300
ctgggatgca ggtgtgaaac aagtgatttg tgtagaagct ggcaggatgg gtataaacia 360
gaacacgtgc ccagaggatg tattgaaagt tggatttaag tctctgagta gtttatgcta 420
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aactggtggg tggatatgag gatggttatg ctaaaagcag agtggttttc aactattggt 660
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<211> 857
<212> DNA
<213> Rattus norvegicus
<400> 56

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azaggaacaa	aaganaagng	anggaagana	aagggagaaa	aaanaagagg	gagaaangga	180
ggaggggaaan	agagaanaga	gggggagaga	anncagagaa	nagaannngag	aaaaggngga	240
gacnaanana	gágggaagaa	aagngaggag	aagagagggg	agaanaaant	tgaagaagaa	300
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<210> 57

<211> 902

<212> DNA

<213> Rattus norvegicus

<400> 57

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ccgaacttcc	ngcaaggaaa	aaaaatttgg	ngggngtaaa	gggcaccncn	ttccacaaaa	180
ttttgntaan	tttgggcgca	aattcangca	ggntttngtt	ggaaaggngn	ananacccaa	240
gggatttngg	ggatttnaaa	atcngngttt	nnggcagggn	atccngaagt	tngaatecga	300
cgncnaccct	ttatttnagc	agttatttan	gggaacatgg	gagggnacca	tttcaaacca	360
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tg						902

<210> 58

<211> 852

<212> DNA

<213> Rattus norvegicus

<400> 58

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aatgtttccc	agaccaaaag	ggggggggna	gttnnaattca	nggatccctna	ngaggnggaa	120
atttttnnnn	tatttnaggat	caggataaat	angaaaangg	gnanattttt	nnnangnggg	180
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ggttaggtcg	ggagtggag	gttcggggcc	ngacatatat	tcntggtgaa	cccagtgcac	420
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nacangaggc	cgggagcaac	aantccacag	ccagcccaaag	ganatacaaa	ggacttgggt	660
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ggtctccagc	nnacagtggg	acctttaaga	ggtggggact	tgtaggagga	gttagataat	780
tgggggtgtg	ctttgtcccc	nacntcggtc	tttccctctt	tatggccttg	atgtggacaa	840

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 <210> 59
 <211> 884
 <212> DNA
 <213> Rattus norvegicus
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 cggattcaat cccaccacaa catgggggttc acaccatngt aaggaatcgn tgcctttttg 240
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 tanatattha ttanataatt taataaataa tatttggana nantnatgtt ctngcgcctt 360
 gnggactggt agttttttnt ccnnatttna actttcccag nactnggtag cctatgtgnt 420
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<211> 1063

<212> DNA

<213> Rattus norvegicus

<400> 66

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<210> 67

<211> 815

<212> DNA

<213> Rattus norvegicus

<400> 67

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<211> 1034

<212> DNA

<213> Rattus norvegicus

<400> 68

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<211> 824

<212> DNA

<213> Rattus norvegicus

<400> 72

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<210> 73

<211> 774

<212> DNA

<213> Rattus norvegicus

<400> 73

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<210> 74

<211> 248

<212> DNA

<213> Rattus norvegicus

<400> 74

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<210> 75

<211> 833

<212> DNA

<213> Rattus norvegicus

<400> 75

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tcgccgcggt	ggctgacggg	aggtggagat	agaacgaggg	tgtcggccat	tttgtgtctg	660
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tttttttttt	ttgtttttcg	ttttccccc	agcttctttt	cgctctnttt	ctgcatagtc	780
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<210> 76

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 76

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taaggcgggt	tcaaacaaac	ttggatttcc	ngccctttgg	ggcgggggaa	atgggcacgg	180
gngcattcca	agcngntcaa	ggttccggct	tgccgacggg	taacacaant	aggtttctca	240
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aatcatggct	cataagcaat	ccggaagtgg	ccaattaaat	atactattta	ctaaccagg	660
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gctcacaacc	atctgtaaca	gattctgggt	tatctggntt	cnactacagt	gtannggcat	840
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<210> 77

<211> 864

<212> DNA

<213> Rattus norvegicus

<400> 77

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caggaantga	tcctnttggt	ttacagtcac	tttagcatag	gntgacagtt	ggngaccaan	180
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ccttggaatc	gggaantccc	ttaaaccaac	cccttttgcc	gttgaattgc	accaaccaga	300
ttcttccagt	ctgcttgagg	angacaggac	ttcattgctn	tgagaggggg	caggagggtt	360
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cccccccccag	ccagggtcaga	cactaaagtg	tcttaagccc	ctccatactt	gccgctcccc	480
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gctcacttgt	ggatttcctt	taagcaagac	ttcctctctg	cttccaggac	tcctgtcaaa	600
caagaggggtc	cctggccttag	agtttgggag	ctgcaggcag	aacagacatt	ccccgatgac	660
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gagctcagtc	ccaggggactc	acgttgaggt	ccctaagggtg	cgctagggag	aggnttttac	840
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<210> 78

<211> 874

<212> DNA

<213> Rattus norvegicus

<400> 78

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atgttgtcaa	cgcgnttggt	ttcccagttg	ttgnactgat	cccncaggga	tgttttccca	180
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atagtttccc	acatatgagt	cctcaaccgc	cccacatcac	gagacggaca	agaccggaga	660
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tgcgcgcgca	cgttaatatg	ccgctcagaa	tagtctaaaa	ctgctgggct	tgaaagacnt	840
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<210> 79

<211> 886

<212> DNA

<213> Rattus norvegicus

<400> 79

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aagtccaact	tctgtttttt	cttccttccc	cgcaacatta	ggaatgactt	ctaagagngc	840
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<210> 80

<211> 865

<212> DNA

<213> Rattus norvegicus

<400> 80

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ggcccantgc	tcagagctcc	gggcgccagc	gaagggcaaa	cgccactga	ttggaaagnt	180
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ntctgtctga	agcataacnt	gntgctgtct	ntgggcgagc	atztatgtgc	cccacttgag	300
acccatctca	ggacacgcag	gacacggtcc	agtggagctt	tccctccaga	gagaggtggt	360
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tccaaatagg	agctgtgatc	aggctgtgtg	tgtgtgcctg	gtgaaagact	ttnacctgta	840
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<210> 81

<211> 859

<212> DNA

<213> *Rattus norvegicus*

<400> 81

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ttgtgcacgg	gagggccaggc	tcancnnct	tgggagnttg	acatccagca	ggctatanac	180
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aagtaataaa	tttataggat	gttagtatca	cactgttcag	aatagctcaa	aaaatcctgc	420
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<210> 82

<211> 1021

<212> DNA

<213> *Rattus norvegicus*

<400> 82

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g

1021

<210> 83
 <211> 1013
 <212> DNA
 <213> Rattus norvegicus
 <400> 83

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acactcgtgt	gggntctttc	aaaacantgt	ncnntggata	cncagacact	cnncnagnn	180
ggtntatctn	cacnngtgtc	tcngngnttt	nngcnngnnn	tcnaanctca	aaagcgnat	240
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caaaaanccn	tggagatttn	tctacncaat	annctanttt	tcacaggnga	gcncntgtnn	360
anacnncac	cntanacaan	tnnggnntgt	ntcagaggng	atthtanctc	nntggncana	420
cccgnntntg	tgnnccaaan	tnttgttttc	caagacatat	agtggnacat	gnnactctnc	480
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<210> 84
 <211> 1002
 <212> DNA
 <213> Rattus norvegicus
 <400> 84

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<210> 85
 <211> 1031
 <212> DNA
 <213> Rattus norvegicus
 <400> 85

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cttacaaggg	aaatattatt	ttcacaatgg	tttagagggt	ccactgtnac	aagtattctg	180
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<210> 86

<211> 1039

<212> DNA

<213> Rattus norvegicus

<400> 86

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<210> 87

<211> 1058

<212> DNA

<213> Rattus norvegicus

<400> 87

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<210> 88

<211> 1043

<212> DNA

<213> Rattus norvegicus

<400> 88

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<210> 89

<211> 454

<212> DNA

<213> Rattus norvegicus

<400> 89

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cagttttgtg	cagctcaagg	gcacaaggnt	agtgcctttt	ncttggnctt	gaggcactnn	420
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<210> 90

<211> 873

<212> DNA

<213> Rattus norvegicus

<400> 90

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<210> 91

<211> 876

<212> DNA

<213> Rattus norvegicus

<400> 91

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<210> 92

<211> 459

<212> DNA

<213> Rattus norvegicus

<400> 92

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<210> 93

<211> 3133

<212> DNA

<213> Rattus norvegicus

<400> 93

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<210> 94

<211> 2161

<212> DNA

<213> Rattus norvegicus

<400> 94

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<210> 95

<211> 824

<212> DNA

<213> Rattus norvegicus

<400> 95

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<210> 96

<211> 774

<212> DNA

<213> Rattus norvegicus

<400> 96

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<210> 97

<211> 248

<212> DNA

<213> Rattus norvegicus

<400> 97

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<210> 98

<211> 880

<212> DNA

<213> Rattus norvegicus

<400> 98

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gctcacaacc	atctgtaaca	gattctgggt	tatctgggnt	cnactacagt	gtannggcat	840
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<210> 99

<211> 864

<212> DNA

<213> Rattus norvegicus

<400> 99

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caggaantga	tccntntggg	ttacagtcac	tttagcatag	gntgacagtt	ggngaccaan	180
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ccttggaatc	gggaantccc	ttaaaccaac	cccttttgcc	gttggaattg	accaaccaga	300
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cacnttggat	gaagccggcc	attaggcagg	gaccgtctct	gggagaggcc	aagccctctg	540
gctcacttgt	ggatttcctt	taagcaagac	ttcctctctg	cttccaggac	tcctgtcaaa	600

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tcaactggga	cactcactct	gagacagga	ggcaagggag	aaacagggtca	gaggtagaga	780
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<210> 100

<211> 874

<212> DNA

<213> Rattus norvegicus

<400> 100

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atgttgtcaa	cgcgnttggt	ttcccagttg	ttgnactgat	ccnccagga	tgttttccca	180
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tggagtagca	atgaaataac	tctatgnttg	ggagggtcac	cacaacanga	gggacggtat	360
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tgcgcgcgca	cgtaaatatg	ccgctcagaa	tagtctaaaa	ctgctgggct	tgaaagacnt	840
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<210> 101

<211> 886

<212> DNA

<213> Rattus norvegicus

<400> 101

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aagtccaact	tctgtttttt	cttccttccc	cgcaacatta	ggaatgactt	ctaagagngc	840
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<210> 102

<211> 865

<212> DNA

<213> Rattus norvegicus

<400> 102

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ggcccantgc	tcagagctcc	gggcgccagc	gaagggcaaa	cggccactga	ttggaaagnt	180
gcagtttaaa	gacatgtccc	aggaactggg	anccttgtgt	gactggactt	agccttgcaa	240
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tccaaatagg	agctgtgatc	aggctgtgtg	tgtgtgcctg	gtgaaagact	ttnacctgta	840
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<210> 103

<211> 859

<212> DNA

<213> Rattus norvegicus

<400> 103

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<210> 104

<211> 883

<212> DNA

<213> Rattus norvegicus

<400> 104

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<210> 105

<211> 987

<212> DNA

<213> Rattus norvegicus

<400> 105

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caaagcatca	gtttgcgtca	ggggccacgg	ggcatgggga	ctaacgggtc	attcttttgg	960
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<210> 106

<211> 1031

<212> DNA

<213> Rattus norvegicus

<400> 106

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<210> 107

<211> 1138

<212> DNA

<213> Rattus norvegicus

<400> 107

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nangananna	nccggngnna	ncanncagnn	gggaaacagc	ccagagagat	aggacancaa	180
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<210> 108

<211> 1072

<212> DNA

<213> *Rattus norvegicus*

<400> 108

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<210> 109

<211> 1094

<212> DNA

<213> *Rattus norvegicus*

<400> 109

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 <212> DNA
 <213> Rattus norvegicus
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 tggccctca ggaggnntca ngggaanccc cattccttcc ttgccaatca aaagccccat 1020
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<210> 111
 <211> 1069
 <212> DNA
 <213> Rattus norvegicus
 <400> 111

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 tgtggagacc cntttcacag ganttgcttg agaccatttg aaacacagta tttatgtcan 360
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 aactgatct ctggctggta gagggttcag cacacatacc agagttacga gtcacgtgcc 660
 agaagggcaa actgaacacg gaattagagg gaactcgatg tctccggctt gcactggtct 720
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 ctctcactgg ggcgtccctc taagatctgt ccactcctgg tntaggggtt aagcctttcg 1020
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<210> 112
 <211> 1058
 <212> DNA
 <213> Rattus norvegicus
 <400> 112

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cgaccttcgg	ttaccggtac	ctgcccncctt	tttccttttgg	gaggggtgggn	tttttcataag	180
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cngtnagccg	gaccgggtgcc	ccttatccgg	taatattgtc	ttgagtccaa	ccngtagaca	300
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at ttgcgctn	ttgttgaagc	cagttacttt	nggaaaggag	ttgntagtct	ttnatccggc	480
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tatttcctg	agcattgcct	atcccttaag	gtactacaaa	atttgggagt	gaggctcagc	960
aaactat ttt	aacatgcctc	tcccacccaa	ctactcaaga	ttccccgtgc	acagttgaaa	1020
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<210> 113

<211> 1046

<212> DNA

<213> Rattus norvegicus

<400> 113

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aaantcncca	nntggngccc	caaattncnc	aattgancca	aancnntaga	ggnncccaag	180
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tgggnanaaat	aaagntntgt	aaacccggan	tggcaatnga	aaccagcaaa	gacccatgaa	300
cgtgagngan	accagttgga	aacaatgaan	nnantgggtg	antnacagga	atgnggtnan	360
gacgcnnagt	gancccaaan	aggcaacnc	attgaaagcc	ttcnccncca	tggaaatact	420
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cnttccagnt	agccaccnnn	taagaactgt	aaatcgacc	ntcccangcc	agatgcagg	540
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ggcncnggtg	anttncgcta	cntcgnaaaa	aangagaagt	catgtgggac	gnatgtgtgt	660
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cataatagna	ttgttacang	atncnngat	tttanaaaan	caaaatccta	aatcctattc	780
tccgtgggcc	cacacgaaac	anccatccat	caggatcatc	tcacagttgc	ctctgannt	840
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<210> 114

<211> 1083

<212> DNA

<213> Rattus norvegicus

<400> 114

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ttgnntgggg	tgaattcccc	ccntngnttg	gaggaggnaa	ttatnttgta	gaaatttatg	180
gttgtggggg	atnttgttaa	atcttttgaa	tgtgttcccc	ttntgtttcc	cttttgggac	240
atggntctta	ataggtggnc	aaattttacc	ntnttggaa	cagcctattt	atcaagatta	300
gccagtggtg	ctcaaccttg	tggaaacctt	ttaacaggat	ttgcttggnc	catntgaaac	360
acagtattta	tgtcaggatt	cataacagta	gcaaaantat	agttatgang	cagcaagaaa	420
atcactttat	ggttggagcg	tcaccacaac	atgaggaatg	tattaatccg	cagtattaga	480
gaggtcgaga	accactatct	tagaggatgc	ggtagactga	ttgcttccct	tctcgttgg	540
agttgacctt	gccactagag	ggcaacagca	tcagtattgt	tcccagtcct	cctcacactg	600
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tacgagtcac	gtgccagaag	ggcaaactga	acacggaatt	agagggaact	cgatgtctcc	720
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ntt						1083

<210> 115

<211> 913

<212> DNA

<213> Rattus norvegicus

<400> 115

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cnaanttccc	tttgacgcc	ntttacaaga	ttagccngtg	tgtaaccttt	gggcccttta	180
acaggattn	ttggccntnt	gaaacacgta	tttatgtcag	gnttntaccg	tngcaaannt	240
ngttttgagc	agcaacgaaa	tcactttatg	gttgagggtc	accacaactt	gaggatgtat	300
taatccgcag	tattagagag	tcgagaacca	ntatcttaga	ggatcggtag	actgatgttt	360
ccentttngc	ttggagttgn	cttnccacta	gaggcaacag	catcagtatt	gttccccagt	420
ccccctcaca	ttgattcgaa	ctttaaggac	actgatctct	ggcttggtag	agggttcagc	480
acacatacca	gagttacgag	tcacgtgcc	gaaggcaaac	tgaacacgga	attagaggga	540
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ggcgcttcat	tgctcgacgtg	tggtgagctc	tcactggggc	gtccctctaa	gatctgtcca	840
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<210> 116

<211> 1123

<212> DNA

<213> Rattus norvegicus

<400> 116

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aatgaggnt	aattggnttn	gaaangenta	tcaggcattc	caaattntta	aatttccctt	180
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gccccaggga	ttgttgacc	nttcccaatn	aaggnggttt	tccttccaan	gcctttnggg	300
gnaaaccag	ggggggnttn	agggggccaa	ttcaggaaaa	ggggaccgga	ntcgggtccc	360
ggaaggnttc	ccgnggggga	atcaaccggg	ttccctcccg	gaggccgggg	gggaccttta	420
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cctttgccct	ttcccttccc	ttgccnggcc	cgttttgccc	aattnggccg	gtcctaactt	540
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acagggccaa	accnttttgt	tgaaanaagt	taacttgccg	ccccagtcac	gcgtcagtg	660
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ccgtccatac	ctgggtgtag	tcagggaacct	ttatggtggc	tgtcacgcag	gcgatttgnc	1080
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<210> 117

<211> 1116

<212> DNA

<213> Rattus norvegicus

<400> 117

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aaaaaacnnt	gttcttnaat	gcaaggtant	tgggggttat	tattntgaaa	ggcaactaat		180
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gngggntccc	cnttccccgg	gaatnggntt	gaaccggaaa	ttgaacattt	tgaccccttt		360
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gtggaagggg	tttcagnttc	cttcccaacc	cccccccgcc	cgggagtcgg	gnggggctgt		480
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ggaatggtac	actttgcacc	tcacactctt	ccagagggac	agtccataca	acactcagct		1020
tcgcttccca	ctataggctt	cacatgacca	gctcttcagc	gtcggaaagg	acngtactga		1080
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<210> 118

<211> 900

<212> DNA

<213> Rattus norvegicus

<400> 118

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gaccnggggc	cggggcccg	anactcncca	ccccatattg	ngaccctnta	taagtgtcnn		180
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tacangnnac	ccacacacag	tgtgtctcct	ctcagccccc	tgacacactt	tnntngant		360
cngnggggat	atgagattcn	cnagactggg	nccgcnntan	tanncncccc	cntgtctcct		420
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<210> 119

<211> 498

<212> DNA

<213> Rattus norvegicus

<400> 119

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taataatggt	aatatgcttt	tgtgtatgtg	ttcttttaga	gttatgttaa	aatctagaga		180
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gtgggagacg	tcttgctctc	ttgctgctcc	tattggagaa	gtgcttattt	ctggttctgg		420
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cgntngaaaa gatcntgg 498
 <210> 120
 <211> 380
 <212> DNA
 <213> Rattus norvegicus
 <400> 120

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<210> 121
 <211> 998
 <212> DNA
 <213> Rattus norvegicus
 <400> 121

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<210> 122
 <211> 970
 <212> DNA
 <213> Rattus norvegicus
 <400> 122

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<210> 123

<211> 884

<212> DNA

<213> Rattus norvegicus

<400> 123

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<210> 124

<211> 855

<212> DNA

<213> Rattus norvegicus

<400> 124

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<210> 125

<211> 1059

<212> DNA

<213> Rattus norvegicus

<400> 125

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<210> 126

<211> 1042

<212> DNA

<213> Rattus norvegicus

<400> 126

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<210> 127

<211> 960

<212> DNA

<213> Rattus norvegicus

<400> 127

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